Answers of lesson 6-2 Alg2

Q52

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| |  | | --- | | **REASONING** If a relation is not a function*,* then its inverse is sometimes*,* always*,* or never a function. Explain your reasoning. | |  |

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|  | **SOLUTION:** |
|  | |  | | --- | | Sample answer: Sometimes;  http://esolutions.mcgraw-hill.com/GetCogneroMedia.ashx?id=72%3a%1F%01J%40jMs%5C%12%05%06   is an example of a relation that is not a function, with an inverse being a function. A circle is an example of a relation that is not a function with an inverse not being a function. | |

Q54

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| |  | | --- | | **CHALLENGE** Give an example of a function that is its own inverse. | |  |

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|  | **SOLUTION:** |
|  | |  | | --- | | Sample answer: *f*(*x*) = *x* and *f* –1(*x*) = *x* or *f*(*x*) = –*x* and *f* –1(*x*) = –*x* | |

Q55

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| |  | | --- | | **CHALLENGE** Give an example of a function that is its own inverse. | |  |

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|  | **SOLUTION:** |
|  | |  | | --- | | Sample answer: *f*(*x*) = *x* and *f* –1(*x*) = *x* or *f*(*x*) = –*x* and *f* –1(*x*) = –*x* | |